

ABSTRACT OF THE DISCLOSURE

In a solid-oxide fuel cell assembly comprising a plurality of components
5 having electrically-conductive mating surfaces therebetween, the surfaces are
sealed by gasket elements that include first and second silver braze alloy layers
and a dielectric layer, formed preferably of yttrium-stabilized zirconia (YSZ),
disposed between the alloy layers. The alloy is capable of bonding to many
ceramics, including YSZ, and is readily brazed to the oxide layer formed on many
10 metals at elevated temperatures. Because the braze alloy is electrically
conductive, a dielectric layer must be included to break conductivity in bonding
applications where electrical insulation is required. YSZ functions as a reliable
insulator and will not crystallize or fracture as do prior art glass insulators. The
assembly is useful as an auxiliary power unit in a vehicle.